

WHAT IS CLAIMED IS:

1        1. A compression connector, comprising:  
2            a conductive compression member including a predetermined composition of  
3            conductive material and an elastomeric material; and  
4            an electrostatically dissipative base member including a conductive material for  
5            dissipating charge developed on the conductive compression member.

1        2. The compression connector of claim 1 further comprising a ground  
2            connection to dissipate the charge from the electrostatically dissipative base member that  
3            is generated when tension is applied to or released from the conductive compression  
4            member.

1        3. The compression connector of claim 1, wherein the resistance of the  
2            conductive compression member is selected to be higher than the resistance of the  
3            electrostatically dissipative base member.

1        4. The compression connector of claim 1, wherein the conductive  
2            compression member is vulcanized to the electrostatically dissipative base member.

1        5. The compression connector of claim 1, wherein the conductive  
2            compression member includes a conductive material blended with a base elastomer stock  
3            and a cross-linking agent.

1           6.       The compression connector of claim 1, wherein the conductive  
2       compression material comprises conductive carbon black material.

1           7.       The compression connector of claim 6, wherein the conductive carbon  
2       black material comprises a concentration of substantially 2.5 percent by weight of the  
3       compression member.

1           8.       The compression connector of claim 6, wherein the conductive carbon  
2       black material comprises a concentration of substantially 3.0 percent by weight of the  
3       compression member.

1           9.       A storage device, comprising:

2           a storage element;

3           an electronics assembly, operatively coupled to the storage element, for

4       processing electrical signals for enabling storage of data on the storage element;

5           a magnetic transducer;

6           a cable for providing a signal path between the magnetic transducer and the

7       electronics assembly; and

8           a compression connector having electrostatic discharge dissipative properties, the

9       compression connector compressively engaging the cable and the electronics assembly,

10      the compression connector further comprising:

11           a conductive compression member including a predetermined composition

12       of conductive material and an elastomeric material; and

13           an electrostatically dissipative base member including a conductive

14       material for dissipating charge developed on the conductive compression member.

1           10.      The storage device of claim 9 further comprising a ground connection to

2       dissipate the charge from the electrostatically dissipative base member that is generated

3       when tension is applied to or released from the conductive compression member.

1           11.      The storage device of claim 9, wherein the resistance of the conductive

2       compression member is selected to be higher than the resistance of the electrostatically

3       dissipative base member.

1           12.    The storage device of claim 9, wherein the conductive compression  
2    member is vulcanized to the electrostatically dissipative base member.

1           13.    The storage device of claim 9, wherein the conductive compression  
2    member includes a conductive material blended with a base elastomer stock and a cross-  
3    linking agent.

1           14.    The storage device of claim 9, wherein the conductive compression  
2    material comprises conductive carbon black material.

1           15.    The storage device of claim 14, wherein the conductive carbon black  
2    material comprises a concentration of substantially 2.5 percent by weight of the  
3    compression member.

1           16.    The storage device of claim 14, wherein the conductive carbon black  
2    material comprises a concentration of substantially 3.0 percent by weight of the  
3    compression member.

1           17. A method for forming a compressive connection with electrostatic  
2           discharge dissipative properties, comprising:  
3           forming a conductive compression member including a predetermined  
4           composition of conductive material and an elastomeric material; and  
5           forming an electrostatically dissipative base member, coupled to the conductive  
6           compression member, the electrostatically dissipative base member including a  
7           conductive material for dissipating charge developed on the conductive compression  
8           member.

1           18. The method of claim 17, wherein the forming the conductive compression  
2           member and the electrostatically dissipative base member further comprises forming the  
3           conductive compression member with a resistance selected to be higher than a resistance  
4           of the electrostatically dissipative base member.

1           19. The method of claim 17, wherein the forming the conductive compression  
2           member further comprises forming the conductive compression member using a  
3           conductive carbon black material comprising a concentration of substantially 2.5 percent  
4           by weight.

1           20. The method of claim 17, wherein the forming the conductive compression  
2           member further comprises forming the conductive compression member using a  
3           conductive carbon black material comprising a concentration of substantially 3.0 percent  
4           by weight.